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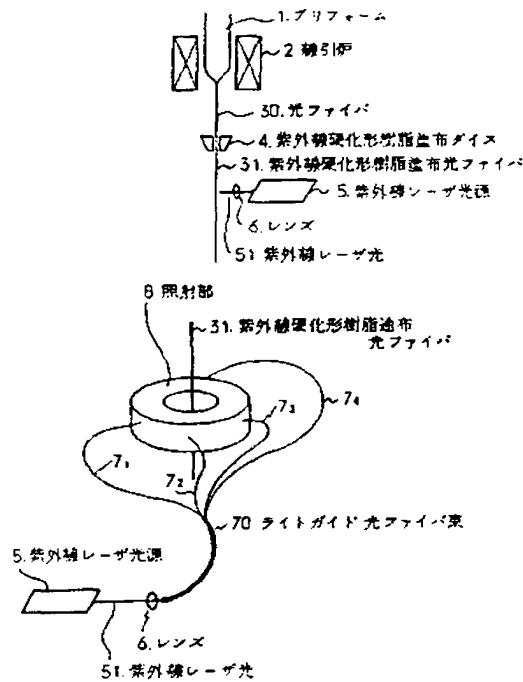
APPLICATION DATE : 29-09-87
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APPLICANT : SUMITOMO ELECTRIC IND LTD;

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TITLE : METHOD FOR CURING RESIN
 COATING OPTICAL FIBER



ABSTRACT : PURPOSE: To allow narrow-diameter optical fiber to be efficiently irradiated with ultraviolet rays which are excellent in directional property and are high in density and energy and to contrive both remote arrangement of a curing oven main body and miniaturization of the curing oven by permitting the outer periphery of optical fiber formed by wire-drawing to be applied with ultraviolet curing-type resin and thereafter using ultraviolet laser beams to cure it.

CONSTITUTION: The outer periphery of optical fiber 30 formed by wire-drawing an optical fiber preform 1 in a wire drawing furnace 2 is applied with ultraviolet curing-type resin via an application die 4 therefor and optical fiber 31 applied with ultraviolet curing-type resin is obtained. Then this optical fiber 31 is irradiated with ultraviolet laser beams 51 emitted from an ultraviolet laser beam source 5 while converging them with a lens 6 e.g. via a light guide or an optical fiber bundle 70, light guides/optical fibers 7₁~7₄ and an irradiation part 8, etc., in accordance with necessity and resin is cured.

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